

ABSTRACT

5 A gateway device is disclosed which processes only
really necessary information for gatewaying and thereby
prevents unnecessary increases in communication traffic
on a communication bus to which data is sent through the
gatewaying. When it is judged that the contents of
received data concern a command that does not need
gatewaying, the processing for gatewaying is inhibited.
10 When it is judged that the contents of the received data
show information that should be processed for gatewaying
only when there is a change in the contents, the contents
are compared with the latest contents of the same kind of
information stored in a memory, to determine whether
15 there is a change in the contents, and the processing for
gatewaying is inhibited when it is determined that there
is no change.

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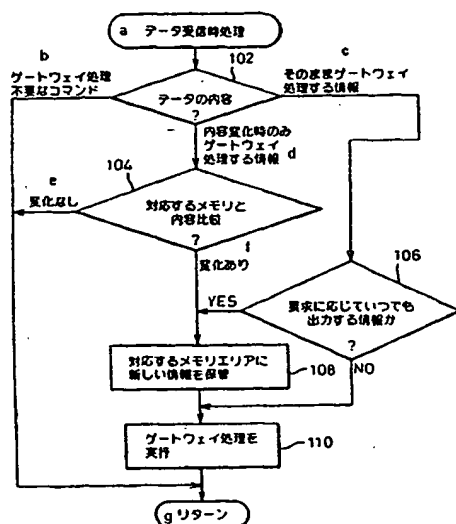
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(54) Title: COMMUNICATION GATEWAY

(54) 発明の名称 通信ゲートウェイ装置



102 ... WHAT ARE THE CONTENTS OF DATA?
 104 ... THE CONTENT COMPARED WITH THAT STORED IN A
 CORRESPONDING MEMORY?
 106 ... INFORMATION TO BE OUTPUTTED AS REQUIRED?
 108 ... STORE NEW INFORMATION IN A CORRESPONDING
 MEMORY AREA
 110 ... EXECUTE GATEWAY PROCESSING
 a ... PROCESSING AT THE TIME OF RECEIVING DATA
 b ... COMMAND REQUIRING NO GATEWAY PROCESSING
 c ... INFORMATION TO BE SUBJECTED TO GATEWAY
 PROCESSING, AS IT IS
 d ... INFORMATION TO BE SUBJECTED TO GATEWAY
 PROCESSING ONLY WHEN THE CONTENTS VARY
 e ... NO VARIATION
 f ... CONTENTS HAVE VARIED
 g ... RETURN

(57) Abstract

A gateway for avoiding unnecessary increase of communication traffic through a communication bus on the side to which data is sent by subjecting only the actually required information to gateway processing. If it is judged that the contents of the received data relate to a command requiring no gateway processing, the gateway processing is inhibited. If it is judged that the contents of the received data represent information to be subjected to gateway processing only when the contents vary, comparison is made with the latest contents of the same kind of information stored in a memory, and it is judged whether or not the contents do not vary. If the contents are judged to have varied the